

Title (en)

WEARABLE NYSTAGMUS DETECTION DEVICES AND METHODS FOR USING THE SAME

Title (de)

AM KÖRPER TRAGBARE NYSTAGMUSDETEKTIONSVORRICHTUNGEN UND VERFAHREN ZU IHRER VERWENDUNG

Title (fr)

DISPOSITIFS DE DÉTECTION DE NYSTAGMUS POUVANT ÊTRE PORTÉS ET PROCÉDÉS D'UTILISATION

Publication

EP 4087465 A4 20230906 (EN)

Application

EP 21738592 A 20210104

Priority

- US 202062957563 P 20200106
- US 2021012076 W 20210104

Abstract (en)

[origin: WO2021141850A1] Wearable nystagmus detection devices are provided. The wearable device comprises first and second sensors configured to sense eye movement of the subject, and circuitry operably coupled to the sensors and configured to detect horizontal and vertical eye movements based on signals from the first and second sensors and/or a transmitter configured to transmit signals sensed by the first and second sensors to remote circuitry configured to receive signals transmitted by the transmitter and to detect horizontal and vertical eye movement based on signals from the first and second sensors. Also provided are systems and kits that include the devices, as well as methods for using devices and systems to monitor eye movement of a subject. The devices, systems, methods and kits find use in a variety of different applications.

IPC 8 full level

A61B 3/113 (2006.01); **A61B 5/00** (2006.01); **A61B 5/103** (2006.01); **A61B 5/11** (2006.01); **A61B 5/297** (2021.01); **A61B 5/398** (2021.01)

CPC (source: EP US)

A61B 3/113 (2013.01 - EP US); **A61B 5/11** (2013.01 - US); **A61B 5/1114** (2013.01 - EP); **A61B 5/1126** (2013.01 - EP); **A61B 5/297** (2021.01 - EP US); **A61B 5/398** (2021.01 - EP US); **A61B 5/4863** (2013.01 - EP); **A61B 5/6814** (2013.01 - EP); **A61B 5/103** (2013.01 - EP); **A61B 2560/0242** (2013.01 - EP); **A61B 2562/0219** (2013.01 - EP US)

Citation (search report)

- [XII] DE 102017117053 A1 20181025 - ZEISBERG GMBH [DE]
- [XI] WO 9302616 A1 19930218 - SRD SHORASHIM MEDICAL LTD [IL], et al
- [I] GB 2574580 A 20191218 - UEA ENTERPRISES LTD [GB]
- [I] US 5726916 A 19980310 - SMYTH CHRISTOPHER C [US]
- [I] US 2018049663 A1 20180222 - SUH MYUNG WHAN [KR], et al
- [I] PHILLIPS JOHN S. ET AL: "An investigation into the diagnostic accuracy, reliability, acceptability and safety of a novel device for Continuous Ambulatory Vestibular Assessment (CAVA)", SCIENTIFIC REPORTS, vol. 9, no. 1, 1 December 2019 (2019-12-01), pages 10452, XP055840663, DOI: 10.1038/s41598-019-46970-7
- See references of WO 2021141850A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2021141850 A1 20210715; AU 2021206599 A1 20220630; CA 3161687 A1 20210715; EP 4087465 A1 20221116; EP 4087465 A4 20230906; JP 2023509522 A 20230308; US 2023018876 A1 20230119

DOCDB simple family (application)

US 2021012076 W 20210104; AU 2021206599 A 20210104; CA 3161687 A 20210104; EP 21738592 A 20210104; JP 2022541899 A 20210104; US 202117781896 A 20210104